

Work Order ID 52971

October 20, 2009 7:54:35 AM



Page 1

Item ID: D212-664-101

Accept



Setup Start



Revision ID: C

Stop



Item Name: Crosstube Fwd

Start Date: 20/10/2009 Start Qty: 1.00

Cust Item ID:

Required Date: 02/11/2009 Req'd Qty: 1.00

Customer:

Reference:

Run Start



Approvals:

Process Plan: *B*

Date: 09-10-20 Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

D212-664-141

Rev C

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels as per PPP D212-664-101 CHG003

802/11/17

for BG 09/11/17

110

0.00



Pick Kit

Packaging

Packaging

Memo

0.00

Packaging

9/11/17

120

0.00



BENDING MACHINE - CROSSTUBES

CNC Bend 2

Memo

0.00

CNC Alpha 160 Bender

Bend tube as per Dwg D212-664-141 using CNC bender program 212-fw and Folio FT015

(IX)

MB 09-10-29

Work Order ID 52971

Page 2

October 20, 2009 7:54:36 AM

Item ID: D212-664-101

Accept



Setup Start



Revision ID: C

Stop



Item Name: Crosstube Fwd

Start Date: 20/10/2009 Start Qty: 1.00



Cust Item ID:

Required Date: 02/11/2009 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

130

QC15- Crosstube Dimensional Check

0.00

2) 8 Oct 10 29



QC

Memo

0.00

Quality Control



140

Crosstubes

0.00



Crosstubes

Memo

0.00

Crosstubes

1-Drill pilot holes in tube as per Dwg D212-664-141 using drill Jig DT8548 & DT8549

2-Ream hole to finish size in tube as per Dwg D212-664-141 using drill Jig DT8548 & DT8549. Check dimensions between holes, both sides on both cuffs, to ensure alignment with saddle holes.

3-Scribe part # and batch # using vibrating stylus as per Dwg D212-664-141

4-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D212-664-141

9-10-29

- AWM 9-10-30

Work Order ID 52971

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October 20, 2009 7:54:36 AM

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Item Name: Crosstube Fwd

Start Date: 20/10/2009 Start Qty: 1.00



Cust Item ID:

Required Date: 02/11/2009 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

150

Crosstubes Chemical Conversion

0.00



HandFXtube

Memo

0.00

Hand Finishing Crosstubes

Chemical Conversion Coat within 24 hours of bending and drilling

1 - AWM 9-10-09

160

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

3/801/03



f

170

Outsource process - NDT per QSI038 4.1

0.00



Outsource2

Memo

0.00

Outsource process - NDT

Liquid Penetrant Inspection as per QSI 038
Issue P/O: 10716
LPI as per ASTM 1417 Level 2
Attach copy of NDT results to work order

C2

10716

Work Order ID 52971



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October 20, 2009 7:54:36 AM

Item ID: D212-664-101

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Item Name: Crosstube Fwd

Start Date: 20/10/2009 Start Qty: 1.00



Cust Item ID:

Required Date: 02/11/2009 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
180 	Receive & Inspect for Damage & Mat'l Certs Packaging	0.00							
Packaging	Memo	0.00							
Packaging	Ensure copy of NDT results attached to work order.								
190 	QC5- Inspect part completeness to step on W/O	0.00							
QC	Memo	0.00							
Quality Control	Inspect for damage & ensure results are as per Dwg D212-664-141								

Handwritten signature and date 8/14/08

Handwritten signature and date 09 11 09

Work Order ID 52971



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October 20, 2009 7:54:36 AM

Item ID: D212-664-101

Accept



Setup Start



Revision ID: C

Stop



Item Name: Crosstube Fwd

Start Date: 20/10/2009 Start Qty: 1.00



Cust Item ID:

Required Date: 02/11/2009 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	----------------	--------------	--------------	---------------	---------------	------------------	----------------

200

Spray Painting per QSI005 4.2

0.00



SprayPaint

SprayPaint

Memo

0.00

Spray Painting

1-Prime inside and outside crosstube as per QSI 005 4.2
2-Paint outside crosstube with White Imron as per QSI 005 4.2

PRIME:

Start Time: 11:00

Finish Time: 12:00

PAINT:

Start Time: 3:00

Finish Time: 4:30

BT 09-11-10

210

QC14- Inspect Spray Paint

0.00



QC

Memo

0.00

Quality Control

Then, Wrap in plastic bag to protect from scratches

ml 09-11-11 (1)

Work Order ID 52971



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October 20, 2009 7:54:36 AM

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Stop



Item Name: Crosstube Fwd

Start Date: 20/10/2009 Start Qty: 1.00



Cust Item ID:

Required Date: 02/11/2009 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
220		0.00							
	Crosstubes					<u>W</u>	<u>09</u>	<u>11</u>	<u>12</u> (1)
Crosstubes	Memo	0.00							
Crosstubes	1- Lightly scuff the bonded area using a 320 grit sand paper and clean the area with 41058 wash 'n' wipe 2-Install supports with magnobond as per QSI 015 Adhere for for 12 Hrs A/R 6398 Magnobond Batch: <u>112417 exp: 01/2011</u>								
230	QC5- Inspect part completeness to step on W/O	0.00							
QC	Memo	0.00				(X)	φ		
Quality Control									
240	Pick Kit	0.00							
Packaging	Memo	0.00							
Packaging									
						<u>9/11/17</u>	<u>50</u>	<u>(K)</u>	

Work Order ID 52971



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October 20, 2009 7:54:36 AM

Item ID: D212-664-101

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Revision ID: C

Stop



Item Name: Crosstube Fwd

Start Date: 20/10/2009 Start Qty: 1.00



Cust Item ID:

Required Date: 02/11/2009 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

250

QC4- 100% Inspect kits for completeness

0.00

28 Oct 12



QC

Memo

0.00

Quality Control



260

Packaging

0.00

Leve



Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D212-664-101

9/11/18

270

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

09/11/18

PL 09-11-18

Picklist Print

October 20, 2009 7:54:42 AM

Page 1

Work Order ID: 52971

Parent Item: D212-664-101RevC

Parent Item Name: Crosstube Fwd

Comments:

Start Date: 20/10/2009

Required Date: 02/11/2009

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D212-664- 101TRNRevC		Manufactured	No			110	Each	0.0000	1.0000			
Crosstube Turning Detail												
D3595-063-450RevA		Manufactured	No			230	Each	156.4584	4.2105			
RUBBER CUSHION												

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

LG

151.4894737

50953

43.4894737

52447

108

Main Warehouse

ST

4.9689

38959

2

43210

2.59

46465

0.3789

ml 09 11 12

B-52828 MB 09-10-20

Picklist Print

October 20, 2009 7:54:42 AM

Work Order ID: 52971



Parent Item: D212-664-101RevC



Parent Item Name: Crosstube Fwd

Start Date: 20/10/2009

Required Date: 02/11/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
MS21920-25		Purchased	No			220	Each	176.0000	4.0000			
Clamp(per MIL-DTL-8783C)												

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	176	
107456	2	
108111	3	
108975	17	
109181	48	
109644	10	
111282	4	
111429	17	
<u>112495</u>	50	
112919	25	

ml 09 11 12

D2893-1RevB

Manufactured No

220

Each

44.0000

2.0000



2.75 Support

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	44	
25657	6	
<u>47109</u>	18	
47637	20	

ml 09 11 12

Picklist Print

October 20, 2009 7:54:42 AM

Work Order ID: 52971



Parent Item: D212-664-101RevC



Parent Item Name: Crosstube Fwd

Start Date: 20/10/2009

Required Date: 02/11/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

D3428-1RevA

Manufactured

No

240

Each

25.0000

1.0000



Placard

9/11/17 *sf*

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST096

25

50790

25

240

Each

98.0000

4.0000

AN6-35A

Purchased

No



BOLT

1x sf
9/11/17 *sf*

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

98

112314

78

112805

20

240

Each

113.0000

4.0000

AN6-36A

Purchased

No



Bolt

9/11/17 *sf*

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

113

109632

1

110382

2

111650

10

112314

100

1x sf

Picklist Print

Page 4

October 20, 2009 7:54:42 AM

Work Order ID: 52971

Parent Item: D212-664-101RevC

Parent Item Name: Crosstube Fwd


Comments:

Start Date: 20/10/2009

Required Date: 02/11/2009

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	East Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
MS21042L6  Nut		Purchased	No			240	Each	649.0000	6.0000		9/11/17 SD	

Warehouse	Loc Qty	Loc Code
<u>Location</u>		
Main Warehouse		
ST	649	
105077	22	
110002	5	
111548	22	
111578	400	
112492	200	

AN960JD616



Washer

Purchased

No

240

Each

870.0000

18.0000

Warehouse	Loc Qty	Loc Code
<u>Location</u>		
Main Warehouse		
ST	870	
112314	370	
112828	500	

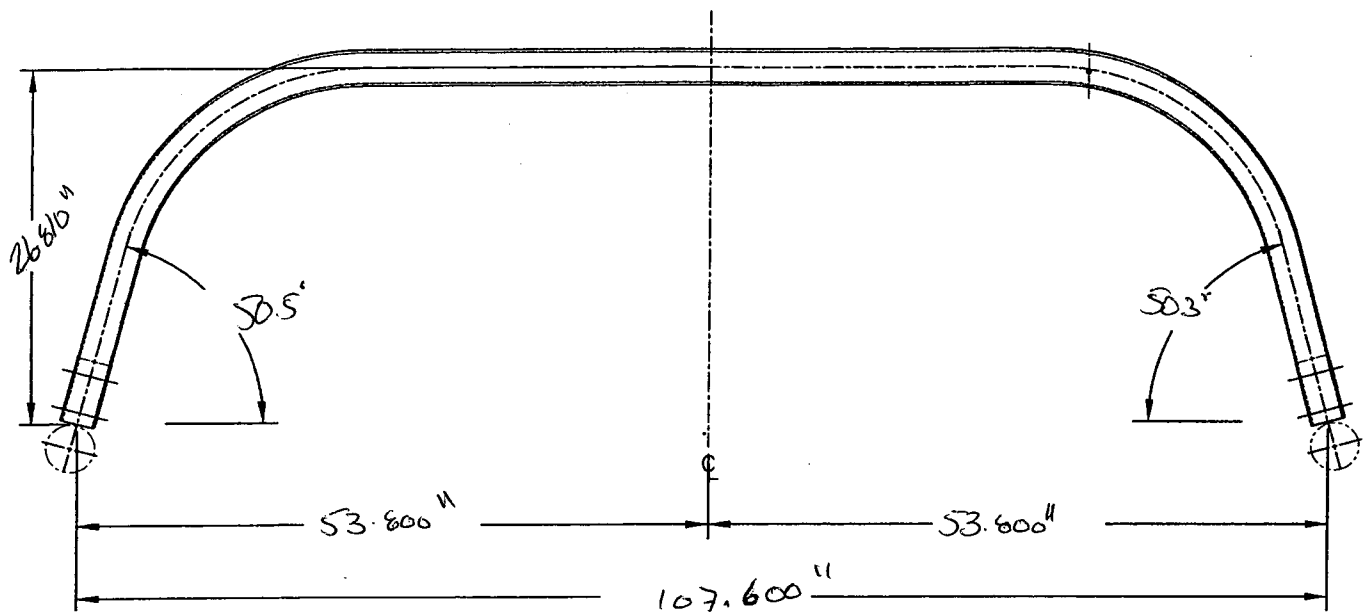
October 20, 2009 7:54:42 AM

Shop Packet Print

Page 4

DART AEROSPACE LTD	Work Order: 52971
Description: Crosstube High Fwd (205/212/412)	Part Number: D212-664-101
Inspection Dwg: D212-664-141 Rev: C	Page 1 of 1

Required Dimension	Min	Max
Height	26.79	27.05
1/2 Span	53.59	53.85
Angle	49	52
Total Span	107.18	107.7



Comments

QC15 Inspection	S
Date	07/10/29

Rev	Date	Change	Revised by	Approved
A	07.02.06	New Issue	KJ/JM	
B	07.05.31	Dimensions updated per Dwg Rev C	KJ/JM	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



COPY
INTO
DRAWING
FILED
AMENDMENT
SUB
WITHOUT NOTICE
WORK ORDER
NO 52971
Bd 07-10-20

DESIGN	PH	DRAWN BY	PH	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED	QP	APPROVED	PH	DRAWING NO.	REV. C
				D212-664-141	SHEET 1 OF 3
DATE				TITLE	
07.03.08				XTUBE ASS'Y (205/212/412 HI FWD) NTS	
A		00.12.12		NEW ISSUE	
B		05.02.04		ADD HOLES FOR COMPATABILITY WITH BHT/AA SKIDTUBES	
C		07.03.08		REMOVE -851 ABRASION STRIP; ADD MAGNOBOND 6398, CUSHION, REVERSE CLAMPS	

RELEASED

07.04.24

DEO ATTACHED

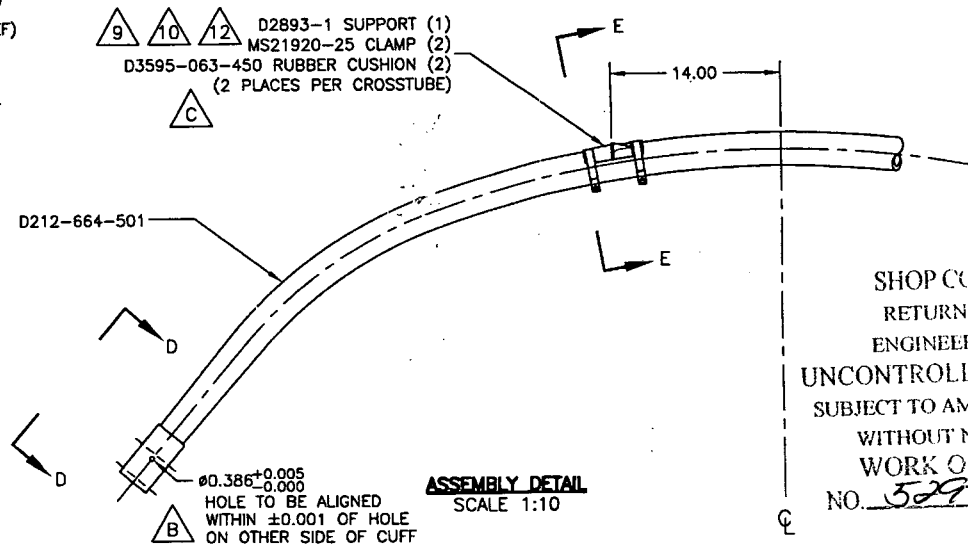
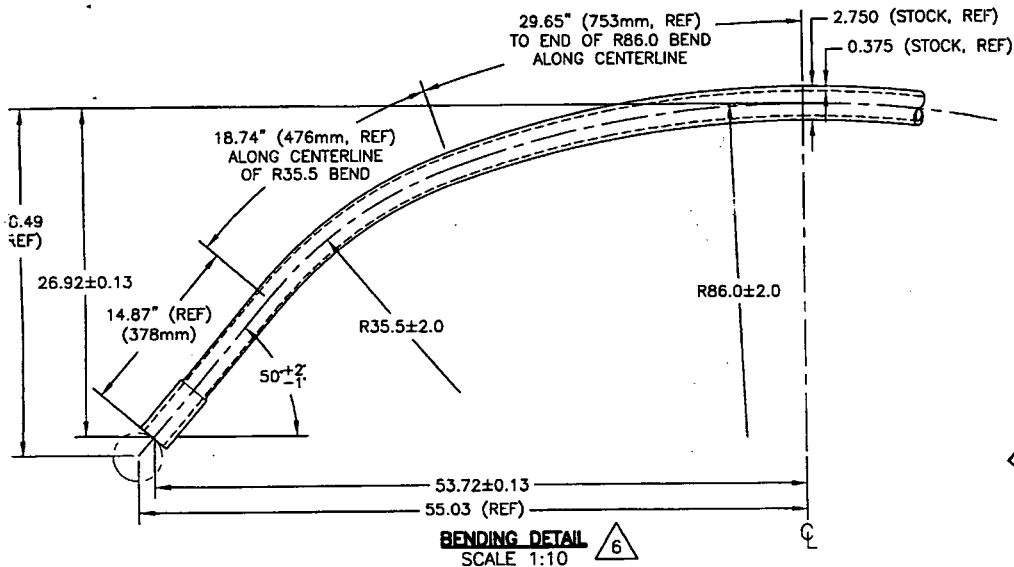
Qty	Part Number	Description
X	D212-664-141	CROSSTUBE ASSEMBLY (205/212/412 HIGH FWD)
1	D6005-128	CROSSTUBE
2	D2893-1	SUPPORT
4	D3595-063-450	RUBBER CUSHION
4	MS21920-25	CLAMP (OR MS21920-26)
A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

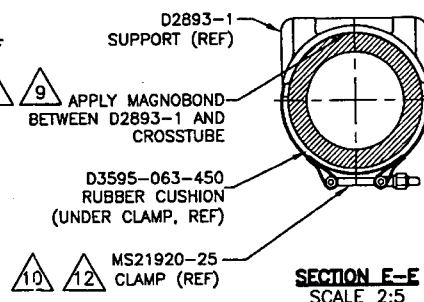
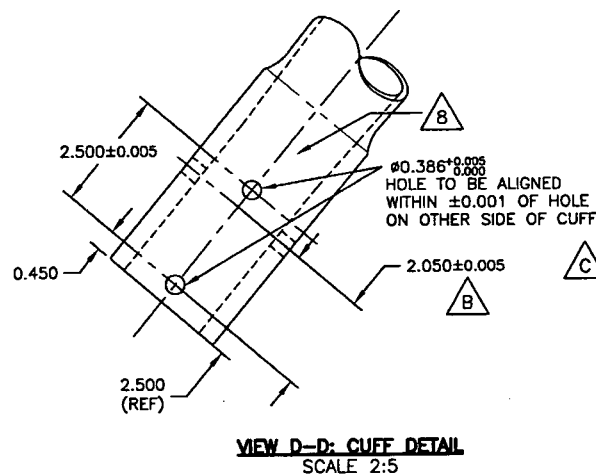
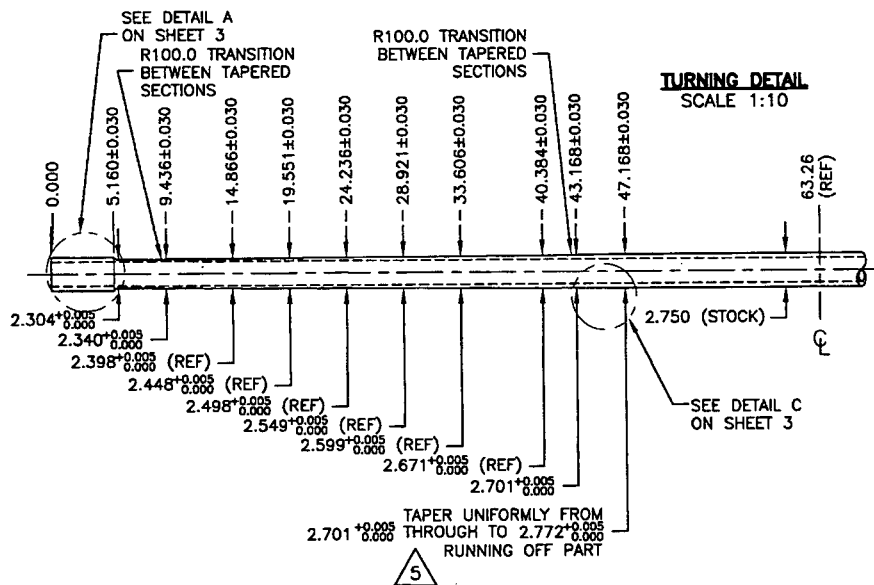
- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 2) MATERIAL: MANUFACTURED FROM D6005-128
FINISHED LENGTH = 126.51±0.020
- 3) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
PAINT OUTSIDE PER DART QSI 005 4.2
- 4) PART IS SYMMETRIC ABOUT CENTERLINE.
- 5) RUN-OFF PART. BLEND OUT EDGE LONGITUDINALLY, TRANSITION SHOULD BE SMOOTH.
- 6) BEND PROGRESSIVELY WITH A MINIMUM OF 3 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 3% BASED ON O.D.
- 7) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- 8) SCRIBE DART PART NUMBER AND BATCH NUMBER IN THIS AREA WITH VIBRATING STYLUS.
- 9) INSTALL D2893-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 10) INSTALL MS21920-25 CLAMPS (OR -26) WITH D3595-063-450 RUBBER CUSHIONS TO SECURE THE D2893-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE SUPPORT
- 11) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 12) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

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WORK ORDER
NO. 5297



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07.04.24

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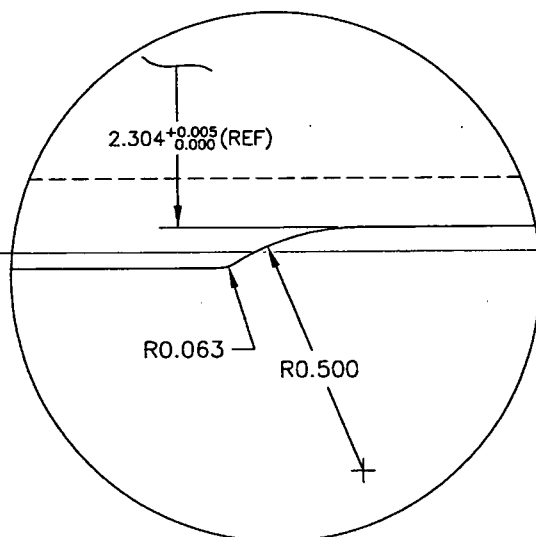
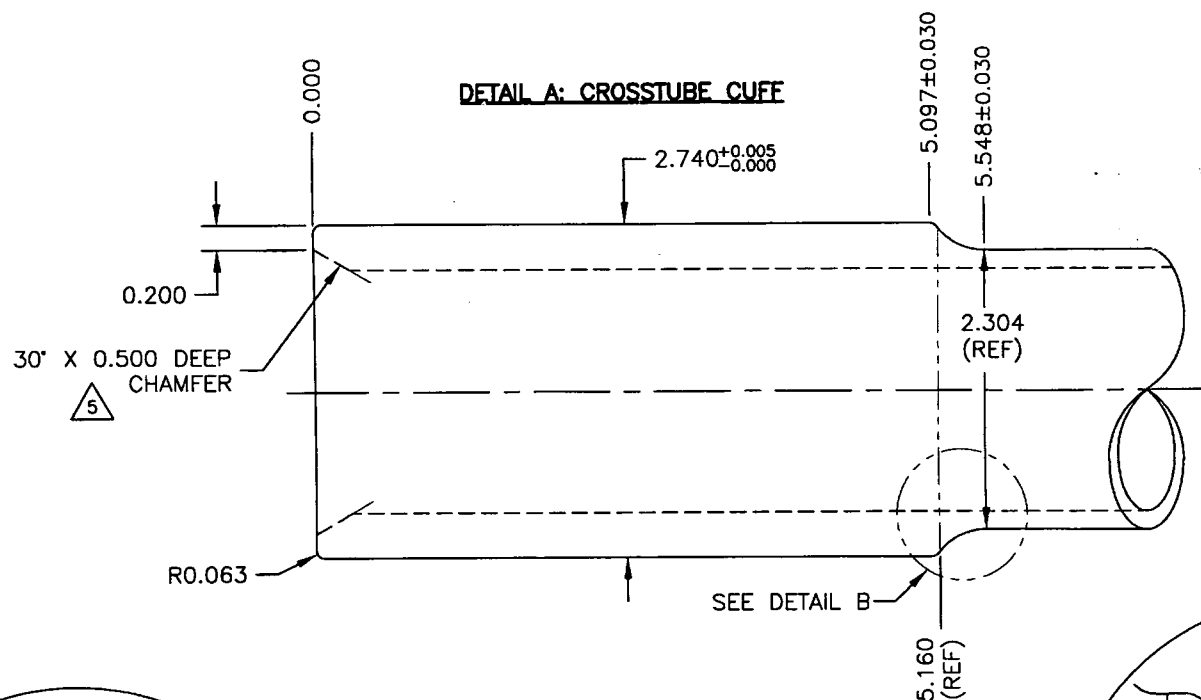
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DESIGN	PH	DRAWN BY	PH	DART	DART AEROSPACE LTD. WARRIMUR, ONTARIO, CANADA
CHECKED	9P	APPROVED	4	DRAWING NO. D212-664-141	REV. C SHEET 2 OF 3
DATE	07.03.08	TITLE	XTUBE ASS'Y (205/212/412 HI FWD) 1:10	SCALE	

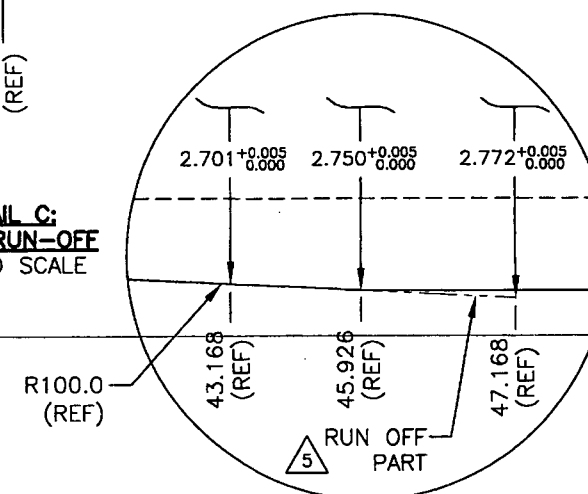
RELEASED
 87.04.24 (P)
 PER ELM 887

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 WORK ORDER
 NO. 52971



**DETAIL C:
 TAPER RUN-OFF**
 NOT TO SCALE



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		DATE 07.03.08	TITLE XTUBE ASS'Y (205/212/412 HI FWD)		SCALE 1:1

DRAWING NO. D212-664-141	TITLE CROSSTUBE	REV. C	DART AEROSPACE LTD ENGINEERING ORDER		D.E.O. NO. D212-664-141-C-1	SHEET NO. SHEET 1 OF 1	SCALE NTS
DRAWN <i>AD</i>	CHECKED <i>RS</i>	MFG. APPR. <i>RE</i>	APPROVED <i>MD</i>		DE APPR. <i>TH</i>		
DATE 09.05.01	DATE 09.06.15	DATE 09.06.15	DATE 09/06/16		DATE 09/06/16		

CHANGE:

ADD THE FOLLOWING CROSSTUBE ASSEMBLY:

Part Number	Description
D212-664-141B	CROSSTUBE ASSEMBLY (214 HIGH FWD)

THE D212-664-141B CROSSTUBE HAS THE SAME PARTS LIST AS THE D212-664-141 CROSSTUBE. HOWEVER, INSTALL THE SUPPORTS AS SHOWN IN FIGURE 1 OF THIS ENGINEERING ORDER. THE NEW KIT IS OTHERWISE ASSEMBLED PER THE D212-664-141 CROSSTUBE.

RELEASED
09/06/16

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WITHOUT NOTICE
WORK ORDER
NO. *52971*

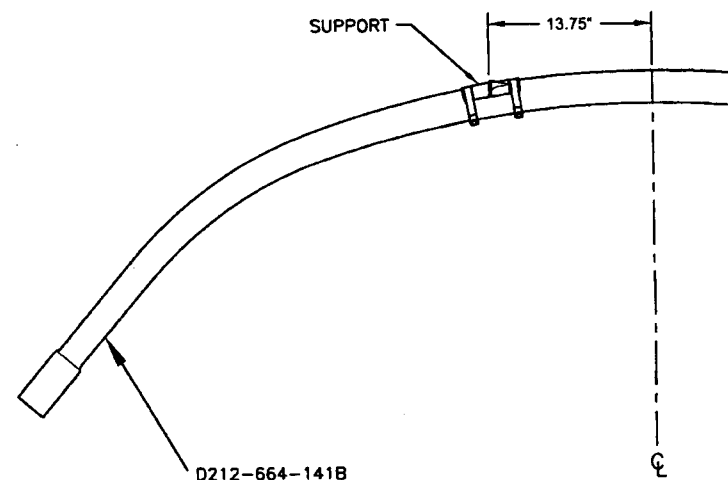


FIGURE 1 - SUPPORT INSTALLATION

ACUREN**LIQUID PENETRANT TEST REPORT****P-15307**PAGE 1 OF 1

CLIENT

DATE

Nov 5 - 2009 TIME AM 11:00 PM 11:00

ATTENTION

ACUREN JOB NO.

10111
10111

ADDRESS

ACUREN JOB NO.

10111
10111

ADDRESS

WORK LOCATION

10111
10111

PROJECT

ACCEPTANCE STD.

10111
10111

ITEM(S) EXAMINED

REVISION

10111
10111

JOB DESCRIPTION

PROCEDURE NO. 1100000000000000

REVISION NO. 1100000000000000

PART NO.

INTERVAL

10111
10111

SCOPE

REPAIR

10111
10111**TEST DETAILS**

METHOD

☒ FLUORESCENT☐ VISIBLE☐ WATER WASH☐ SOLVENT REMOVAL

FAMILY BRAND

10111

BLACK LIGHT SN/

10111

PENETRANT REMOVER

10111

LIGHTING EQUIP.

10111

DEVELOPER

10111

LIGHT METER SN

10111

DEVELOPER TYPE

☒ NON AQUEOUS☐ AQUEOUS☐ DRY10111**TEST SURFACE**

SURFACE CONDITION

☐ AS GROUNDED☐ AS WELDED☒ MACHINED☐ SHOT BLASTED

SURFACE TEMPERATURE

☐ < 40°C/104°F☐ 40°C/104°F TO 10°C/50°F☐ 10°C/50°F TO 52°C/125°F

RESULTS:

☐ METRIC☐ IMPERIAL

ITEM

COMMENTS

ACCEPT

REJECT

1

CLASS TUBE W.O. 51935

1

1

1

CLASS TUBE W.O. 51936

1

1

1

CLASS TUBE W.O. 53314

1

1

1

CLASS TUBE W.O. 53315

1

1

1

CLASS TUBE W.O. 52930

1

1

1

CLASS TUBE W.O. 52931

1

1

1

CLASS TUBE W.O. 52959

1

1

1

CLASS TUBE W.O. 52860

1

1

1

CLASS TUBE W.O. 52932

1

1

1

CLASS TUBE W.O. 52973

1

1

Range of Detection

The acceptance of Acuren Group Inc. to perform services depends only on those services provided for in writing. Under no circumstances shall such services extend beyond the performance of the requested services. It is expressly understood that all descriptions, comments and suggestions of opinion reflect the opinion or observation of Acuren Group Inc. based on information and equipment supplied by the contractor and are not intended nor can they be construed as representations or warranties. Acuren Group Inc. is not assuming any responsibility for the contractor's equipment, personnel, or any other information provided by Acuren Group Inc. In no event shall Acuren Group Inc.'s liability in respect of the services provided be limited except the amount paid for such services.

Standard of Care

In performing the services provided, Acuren Group Inc. uses the degree care and skill ordinarily exercised under similar circumstances by others performing such services in the same or similar locality. No other warranty, expressed or implied, is made or intended by Acuren Group Inc.

SIGNATURES

CLIENT REPRESENTATIVE

1011110111DIR # 10111

TECHNICIAN (SIGNATURE)

1011110111

REPORT

NAME

INITIALS

NAME (PRINT)

1011110111

CQSB LENS

1011110111

CQSB REG. NO.

1011110111

WHITE - CLIENT COPY

CARET - OFFICE COPY

PINK - TECHNICIAN COPY

GOLD - OFFICE COPY 1053

10111 832

PT 5001 200